Brain AND Language

EDITOR
Harry A. Whitaker, Ph.D.

ASSOCIATE EDITOR
André Roch Lecours, M.D.

VOLUME 37 • 1989

ACADEMIC PRESS, INC.
Harcourt Brace Jovanovich, Publishers

San Diego New York Boston
London Sydney Tokyo Toronto

Copyright © 1989 by Academic Press, Inc.
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (27 Congress Street, Salem, Massachusetts 01970), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1989 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0093-934X/89 $3.00

MADE IN THE UNITED STATES OF AMERICA

This journal is printed on acid-free paper.

Contents of Volume 37

Number 1, July 1989

B. Lechevalier, M. C. Petit, F. Eustache, J. Lambert, F. Chapon, and F. Viader. Regional Cerebral Blood Flow during Comprehension and Speech (in Cerebrally Healthy Subjects) 1

Henry A. Buchtel and John D. Stewart. Auditory Agnosia: Apperceptive or Associative Disorder? 12

Geraldine Dawson, Charles Finley, Sheila Phillips, and Art Lewy. A Comparison of Hemispheric Asymmetries in Speech-Related Brain Potentials of Autistic and Dysphasic Children 26

Roderick J. Simonds and Arnold B. Scheibel. The Postnatal Development of the Motor Speech Area: A Preliminary Study 42

Richard J. Sanders. Sentence Comprehension following Agenesis of the Corpus Callosum 59

Avraham Schweiger, Eran Zaidel, Timothy Field, and Bruce Dobkin. Right Hemisphere Contribution to Lexical Access in an Aphasic with Deep Dyslexia 73

Maureen W. Lovett, Marilyn J. Ransby, Noreen Hardwick, Marie S. Johns, and Sally A. Donaldson. Can Dyslexia Be Treated? Treatment-Specific and Generalized Treatment Effects in Dyslexic Children's Response to Remediation 90

Recaredo Rodríguez, Martha Aguilar, and Guillermo González. Left Non-dominant Hand Mirror Writing 122

Baii-Jia Yang, Tong-Chieh Yang, Hsiu-Chin Pan, Shiang-Jiun Lai, and Fish Yang. Three Variant Forms of Subcortical Aphasia in Chinese Stroke Patients 145

Notes and Discussion

Marilyn Albert and William Milberg. Semantic Processing in Patients with Alzheimer's Disease 163

Wolfram Ziegler. Anticipatory Coarticulation in Aphasia: More Methodology: A Reply to Sussman et al. (1988) and Katz (1988) 172

Erratum

Volume 35, Number 1, September 1988: Roger L. Towne and Michael A. Crary, "Verbal Reaction Time Patterns in Aphasic Adults: Consideration for Apraxia of Speech," pp. 138–153 177

Papers to Appear in Forthcoming Issues 178

Number 2, August 1989

Susan J. Behrens. Characterizing Sentence Intonation in a Right Hemisphere-Damaged Population 181

Robert B. Katz. Recognizing Orally Spelled Words: An Analysis of Procedures Shared with Reading and Spelling 201

Sidney J. Segalowitz and Henri Cohen. Right Hemisphere EEG Sensitivity to Speech 220
Jack Gandour, Soranee Holasuit Petty, and Rochana Dardarananda. Dysprosody in Broca's Aphasia: A Case Study 232
R. Bruyer and D. Janlin. Lateral Differences in Lexical Access: Word Length vs. Stimulus Length 258
Robert B. Katz and Steven Sevush. Positional Dyslexia 266
Pierre L. Divenyi and Alice J. Robinson. Nonlinguistic Auditory Capabilities in Aphasia 290
Shari R. Baum. On-Line Sensitivity to Local and Long-Distance Syntactic Dependencies in Broca's Aphasia 327
Manfred Herrmann, Uwe Koch, Helga Johannsen-Horbach, and Claus-W. Wallesch. Communicative Skills in Chronic and Severe Nonfluent Aphasia 339
Papers to Appear in Forthcoming Issues 353
Announcement 355

Number 3, October 1989

Guila Glosser and Edith Kaplan. Linguistic and Nonlinguistic Impairments in Writing: A Comparison of Patients with Focal and Multifocal CNS Disorders 357
Guylaine Le Dorze and Jean-Luc Nespoulous. Anomia in Moderate Aphasia: Problems in Accessing the Lexical Representation 381
Andrew Kertesz and Thomas Benke. Sex Equality in Intrahemispheric Language Organization 401
Natacha Akshoomoff, Eric Courchesne, Rachel Yeung-Courchesne, and Jamie Costello. Brainstem Auditory Evoked Potentials in Receptive Developmental Language Disorder 409
Janet Cohen Sherman and Janell Schweickert. Syntactic and Semantic Contributions to Sentence Comprehension in Agrammatism 419
Eleanor M. Saffran, Rita Sloan Berndt, and Myrna F. Schwartz. The Quantitative Analysis of Agrammatic Production: Procedure and Data 440
Yosef Grodzinsky. Agrammatic Comprehension of Relative Clauses 480
Alexander I. Tröster, David P. Salmon, Donna McCullough, and Nelson Butters. A Comparison of the Category Fluency Deficits Associated with Alzheimer's and Huntington's Disease 500

Notes and Discussion

Harvey M. Sussman. A Reassessment of the Time-Sharing Paradigm with ANCOVA 514
Papers to Appear in Forthcoming Issues 521
Announcement 523

Number 4, November 1989

Jan W. Van Strien, Robert Licht, Anke Bouma, and Dirk J. Bakker. Event-Related Potentials during Word-Reading and Figure-Matching in Left-Handed and Right-Handed Males and Females 525

C. M. Temple, M. A. Jeeves, and O. Vilarroya. Ten Pen Men: Rhyming Skills in Two Children with Callosal Agenesis 548

Doreen Kimura and Neil Watson. The Relation between Oral Movement Control and Speech 565

Josiane Bertoncini, José Morais, Ranka Bijeljac-Babic, Stephen McAdams, Isabelle Peretz, and Jacques Mehler. Dichotic Perception and Laterality in Neonates 591

Ho Sai Keung and Rumjahn Hoosain. Right Hemisphere Advantage in Lexical Decision with Two-Character Chinese Words 606

Jyotsna Vaid and Joan Stiles-Davis. Mirror Writing: An Advantage for the Left-Handed? 616

Judy Illes. Neurolinguistic Features of Spontaneous Language Production Dissociate Three Forms of Neurodegenerative Disease: Alzheimer's, Huntington's, and Parkinson's 628

Elena Plante, Linda Swisher, and Rebecca Vance. Anatomical Correlates of Normal and Impaired Language in a Set of Dizygotic Twins 643

Michael P. Alexander, D. Frank Benson, and Donald T. Stuss. Frontal Lobes and Language 656

Papers to Appear in Forthcoming Issues 692

Author Index for Volume 37 694

Information for Contributors

Brain and Language publishes original research articles, case histories, critical reviews, and scholarly notes; each contribution will be concerned with human language or communication (speech, hearing, reading, writing, or non-verbal modalities) related to any aspect of the brain or brain function. Each will have theoretical import, either formulating new hypotheses, or supporting or refuting new or previously established ones. The interdisciplinary focus includes the fields of neurology, linguistics, neurophysiology, psychology, neuroanatomy, psychiatry, neurosurgery, and speech pathology. Manuscripts of several different types are solicited: regular articles, single or multiple case history studies, critical reviews of books of interest to the journal's readership, and short (limited to under 10 pages typed) scholarly notes and comments discussing issues of topical interest.

Submission of Manuscripts. Manuscripts should be submitted to:

Brain and Language
Editorial Office
Seventh Floor
1250 Sixth Avenue
San Diego, California 92101

Original papers only will be considered. Manuscripts are accepted for review with the understanding that the same work has not been and will not be nor is presently submitted elsewhere, and that its submission for publication has been approved by all of the authors and by the institution where the work was carried out; further, that any person cited as a source of personal communications has approved such citation. Written authorization may be required at the Editor's discretion. Articles and any other material published in *Brain and Language* represent the opinions of the author(s) and should not be construed to reflect opinions of the Editor(s) and the Publisher.

Authors submitting a manuscript do so on the understanding that if it is accepted for publication, copyright in the article, including the right to reproduce the article in all forms and media, shall be assigned exclusively to the Publisher. The Publisher will not refuse any reasonable request by the author for permission to reproduce any of his or her contributions to the journal.

Form of Manuscript. Authors should submit manuscripts in *quadruplicate* (one original and three copies), typewritten, double-spaced on one side of 8½ × 11-in. white paper. The original and two copies of all artwork, tabular material, photographs, etc., must also be included. All pages should be numbered consecutively.

Page 1 should contain the article title, author(s) name(s) and affiliation(s), abbreviated form of the title for the running page heading (not to exceed 35 characters including letters and spaces), and the complete mailing address of the author to whom all correspondence should be sent. *Page 2* should contain a short *abstract* of approximately 100 words.

Papers must be written in English. Language data may be given in English when clearly identifiable, otherwise it should be transcribed into the phonetic alphabet of the International Phonetic Association (IPA).

Figures should be numbered in order of appearance (with Arabic numerals) and should have short descriptive captions (typed double-spaced on a separate page). Line drawings must be originals in black India ink on white paper, on polyester drafting film, or comparable glossy black and white photographs. Lettering should be uniform, professionally done, and large enough to be fully legible after a 50–60% reduction in printing. Illustrations in color can be accepted only if the authors defray the cost.

Tables should be numbered in order of appearance (with Arabic numerals): they should be typed double-spaced on a separate page. Each table should have a short descriptive title typed (double-spaced) above the table. Footnotes to tables (indicated by superscript lowercase letters,[a,b], etc.) should be typed (double-spaced) at the end of the table. Keep in mind the dimensions of the journal when planning the number of columns in a table.

Footnotes to the text should be kept to a minimum; when necessary, they should be indicated by superscript Arabic numerals,[1,2], etc., cited consecutively throughout the article, starting with the title. They should be typed double-spaced on a separate page.

References should be cited in the text by surname of the author and the publication date in parentheses, e.g., Goldstein (1980) or (Russell & Espir, 1981). If more than one paper was published by the same author in a given year, the correct style is Broca (1982a) or (Broca, 1982b).

References should be listed alphabetically, typed double-spaced at the end of the article. All references cited in the text must be listed at the end of the paper. Journal titles should be written out in full, not abbreviated. Note the following examples.

Fromkin, V. 1980. *Errors in linguistic performance*. New York: Academic Press.

Efron, R., Snyder, E., Yund, E. W., & Martin, F. 1983. Central auditory processing. VI. Detecting ear dominance by evoked potentials. *Brain and Language,* **20,** 54–64.

Bryden, M. P. 1978. Strategy effects in the assessment of hemispheric asymmetry. In G. Underwood (Ed.), *Strategies of information processing*. New York/London: Academic Press.

(Use underlining for journal and book titles only.)

Proofs. Proofs will be sent to the designated author, with a reprint order form. Authors will be charged for alterations in excess of 10% of the cost of composition.

Reprints. Fifty (50) reprints without covers will be provided free of charge for articles. Additional reprints may be purchased; an order form will be included with proofs.

New Perspectives on Language

Announcing a new series. . .

PHONETICS AND PHONOLOGY

series editors
Stephen R. Anderson and Patricia A. Keating

Volume 1

Rhythm and Meter

edited by
Paul Kiparsky and Gilbert Youmans

This volume discusses the analysis of verse metrics and, more generally, the sound structure of all spoken language. While phonological theory remains a central concern for most of the authors of this coherent collection of articles, the emphasis here is placed on metrical theory, formulating and illustrating metrical principles within the tradition of generative metrics as well as within competing traditions. The contributors to this volume are leading scholars in linguistics and literary criticism, making this rare collaboration the beginning of an ongoing exchange between the all too often adversarial disciplines.

March 1989, 379 pages, $59.50
ISBN: 0-12-409340-X

COMPREHENDING ORAL AND WRITTEN LANGUAGE

edited by
Rosalind Horowitz and S. Jay Samuels

Written by respected researchers in their field, this book is about the skills beyond basic word recognition that are necessary for the processing and comprehension of spoken and written language.
The major topics presented are as follows:

- language and text analysis
- cognitive processing and comprehension
- development of literacy
- literacy and schooling
- factors influencing listening and reading.

1987, 411 pages, $42.00
ISBN: 0-12-356110-8

SYNTAX AND SEMANTICS

Volume 21

Thematic Relations

edited by
Wendy Wilkins

The central question posed by the contributors to this volume is what status does the system of thematic relations have in the theory of grammar? This is an important issue because of the recognition that accepted syntactic mechanisms are not sufficient to explain many identifiable language phenomena traditionally viewed as falling within the scope of syntax. Each chapter contains new information on the status of thematic relations in linguistic theory.

In Paperback: $24.95/ISBN: 0-12-606102-5
Casebound: $65.00/ISBN: 0-12-613521-5
1988, 308 pages

THEORETICAL MORPHOLOGY
Approaches in Modern Linguistics

edited by
Michael Hammond and Michael Noonan

Theoretical Morphology provides a comprehensive and coherent treatment of contemporary morphological research and theory. A variety of theoretical paradigms are reviewed and illustrated by specific topics of debate within the field. The twenty-one chapters are divided into sections on inflection, function, historical/area studies, mapping to other components, and morphophonology.

In Paperback: $32.95/ISBN: 0-12-322046-7
Casebound: $65.00/ISBN: 0-12-322045-9
1988, 394 pages

ACADEMIC PRESS
Harcourt Brace Jovanovich, Publishers

Book Marketing Department #12039, 1250 Sixth Avenue, San Diego, CA 92101

CALL TOLL FREE 1-800-321-5068

989 by Academic Press, Inc. All Rights Reserved.

Prices subject to change without notice. KK/ES #12039

BRAIN AND COGNITION

Editor: **HARRY A. WHITAKER**
Université du Montréal à Québec, Canada

Associate Editor: **JEFFREY L. CUMMINGS**
Neurobehavior Unit, Veterans Administration Medical Center, Los Angeles, California

Brain and Cognition was created in response to the significant growth in research and interest in neuropsychology during the past decade. Presenting clinical case histories, original research papers, reviews, notes, and commentaries, **Brain and Cognition** provides an excellent forum for the discussion of timely and important advances in the field. The journal also features book reviews that are scholarly contributions in themselves.

Research Areas Include

- Attention
- Cognitive processes
- Consciousness
- Emotion
- Hemispheric differences
- Memory
- Movement
- Perception
- Praxis
- Sex differences
- Visual and spatial processes

Volumes 9–11 (1989), 6 issues ISSN 0278–2626
In the U.S.A. and Canada: $123.00 All other countries: $151.00

Sample copies and privileged personal rates are available upon request.
For more information, please write or call:

ACADEMIC PRESS, INC.
Journal Promotion Department
1250 Sixth Avenue, San Diego, CA 92101, U.S.A. (619) 230-1840

All prices are in U.S. dollars and are subject to change without notice. S9086